

R E M A R K S

Careful review and examination of the subject application are noted and appreciated.

Please cancel claims 10, 11, 14 and 19 without prejudice.
Please add new claims 21-24.

SUPPORT FOR CLAIM AMENDMENTS

Support for the amendments to claims may be found in the specification, for example, on page 22 lines 15-18, page 29 line 14-page 30 line 9, page 32 lines 1-10, page 34 lines 13-15 and FIGS. 7 and 10. As such, no new matter has been added.

By way of example, if all of S0-S3 are available, Table 1 and the associated text teach that all of A, B, C and D are generated using Pred0 (first column). If S2 is unavailable, B, C and D are generated using Pred0 and A is generated using Pred1 (second column). If both S0 and S3 are unavailable, B uses Pred0, D uses Pred1 and both A and C use Pred2 (third column). If all of S0-S3 are unavailable, all of A-D are generated using Pred 3 (fourth column).

CLAIM REJECTIONS UNDER 35 U.S.C. §103

The rejection of claims 1, 2 and 5-20 under 35 U.S.C. §103(a) as being unpatentable over Sun, US Pub. No. 2003/0202705, (hereinafter Sun) in view of "Working Draft Number 2 Revision 2"

(hereinafter WD2) has been obviated by amendment and should be withdrawn.

The rejection of claims 3 and 4 under 35 U.S.C. §103(a) as being unpatentable over Sun in view of WD2 and Joch et al., US Pub. No. 2004/0101059 (hereafter Joch) has been obviated by amendment and should be withdrawn.

The rejection of claims 1, 2 and 5-20 under 35 U.S.C. §103(a) as being unpatentable over Sun in view of WD2 and Sun et al., US Pub. No. 2003/0223495 (hereafter Sun2) has been obviated by amendment and should be withdrawn.

The rejection of claims 3 and 4 under 35 U.S.C. §103(a) as being unpatentable over Sun in view of WD2, Sun2 and Joch has been obviated by amendment and should be withdrawn.

Sun concerns a system and method for lossless video coding (title). WD2 concerns a reference coding method to be used for the development of a new video compression method called JVT Coding as ITU-T Recommendation (H.26L) and ISO/IEC JTC1 standard (MPEG-4, Part 10) (WD2 page 1). Joch concerns a low-complexity deblocking filter (title). Sun2 concerns a system and method for lossless video coding (title).

Claims 1, 12 and 13 are independently patentable over the cited references. Claim 1 provides that (i) all of the intra prediction DC predictors are generated using a first of the prediction types when all of the sum values are available, and (ii)

both (a) a first subset of the intra prediction DC predictors are generated using the first prediction type and (b) a second subset of the intra prediction DC predictors are generated using a second of the prediction types when a single one of the sum values is unavailable. Claims 12 and 13 provide similar language. In contrast, all of Sun, WD2 and Sun2 appear to be silent regarding how to handle a single missing sum among S0, S1, S2 and S3. Therefore, Sun, WD2 and Sun2, alone or in combination, do not appear to render obvious that (i) all of the intra prediction DC predictors are generated using a first of the prediction types when all of the sum values are available, and (ii) both (a) a first subset of the intra prediction DC predictors are generated using the first prediction type and (b) a second subset of the intra prediction DC predictors are generated using a second of the prediction types when a single one of the sum values is unavailable, as presently claimed.

Furthermore, one of ordinary skill in the art would likely use the solutions available in the WD2 and Sun2 documents. In particular, one of ordinary skill in the art viewing WD2 paragraph 4.4.4.1.3 may likely conclude that if a single sum S0-S3 is missing, the available equations for (i) "If only S0 and S1 are inside the frame" and (ii) "If only S2 and S3 are inside the frame" should be used in generating A-D.

Likewise, one of ordinary skill in the art viewing paragraph 0041 of Sun2 may likely conclude that if a single luma sample among A-D is missing, the luma samples a-p should be predicted using only I-L.

Furthermore, paragraph 0047 of Sun2 states:

The ordering process, which is based upon the likelihood of producing a lesser prediction error for each of the modes, increases the coding efficiency, reduces the memory requirements, and may be at least partially mathematically defined.

Sun2 paragraph 0047 appears to instruct that the use of different prediction modes of an individual luminance samples is based upon likely prediction error and appears to be silent on the possibility of one missing pixel among pixels A-P. As such, the Office is respectfully requested to either (i) provide evidence why one of ordinary skill in the art would consider (a) Sun2 to show "the availability of samples is individually assessed for each adjacent sub-block and the best predictor is determined based on availability" as alleged and (b) predictions of **individual luminance samples** in many modes to be similar to predictions of **chroma sub-blocks** in a single mode (WD2 paragraph 4.4.4.1.3 states that intra coding of chroma blocks has only one mode) or (ii) withdraw the rejections.

Claims 2-9, 11 and 15-20 depend, either directly or indirectly, from claims 1 or 13, which are now believed to be

allowable. As such, the dependent claims are fully patentable over the cited references and the rejections should be withdrawn.

New claims 21 -24 depend, either directly or indirectly, from claims 1 or 13, which are now believed to be allowable. As such, the new claims are fully patentable over the cited references and should be allowed.

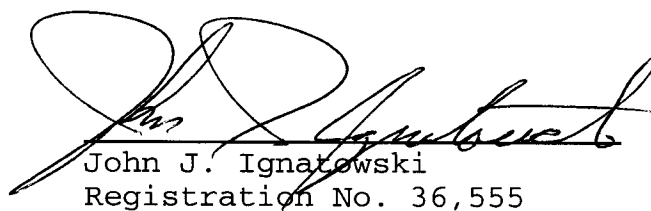
Accordingly, the present application is in condition for allowance. Early and favorable action by the Examiner is respectfully solicited.

The Examiner is respectfully invited to call the Applicants' representative between the hours of 9 a.m. and 5 p.m. ET at 586-498-0670 should it be deemed beneficial to further advance prosecution of the application.

If any additional fees are due, please charge Deposit Account No. 12-2252.

Respectfully submitted,

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c/o Lloyd Sadler
LSI Corporation

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